

PROJECT DESCRIPTION

THIS PROJECT INVOLVES MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 528 (PHILADELPHIA AVENUE) AND 21ST STREET IN WORCESTER COUNTY. DETECTABLE WARNING SUFACES, L.E.D. COUNTDOWN PEDESTRIAN SIGNALS, AND APS PEDESTRIAN PUSH-BUTTONS AND SIGNS WILL BE INSTALLED AT THIS LOCATION. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE FULLY TRAFFIC-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 528, AND ALTERNATE PEDESTRIAN PHASES FOR CROSSING THE NORTH, AND SOUTH LEGS OF THE INTERSECTION. THE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION WILL BE REMOVED.

CONTROLLER REQUIRMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. AN APS CENTRAL CONTROL UNIT WILL BE INSTALLED BY THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 1 ARE AS FOLLOWS:

MR. GENE COFIELL  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 677-4040

MR. JIMMY WRIGHT  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 543-6715

MR. BRUCE POOLE  
ASSISTANT DISTRICT ENGINEER - UTILITY  
PHONE: (410) 677-4082

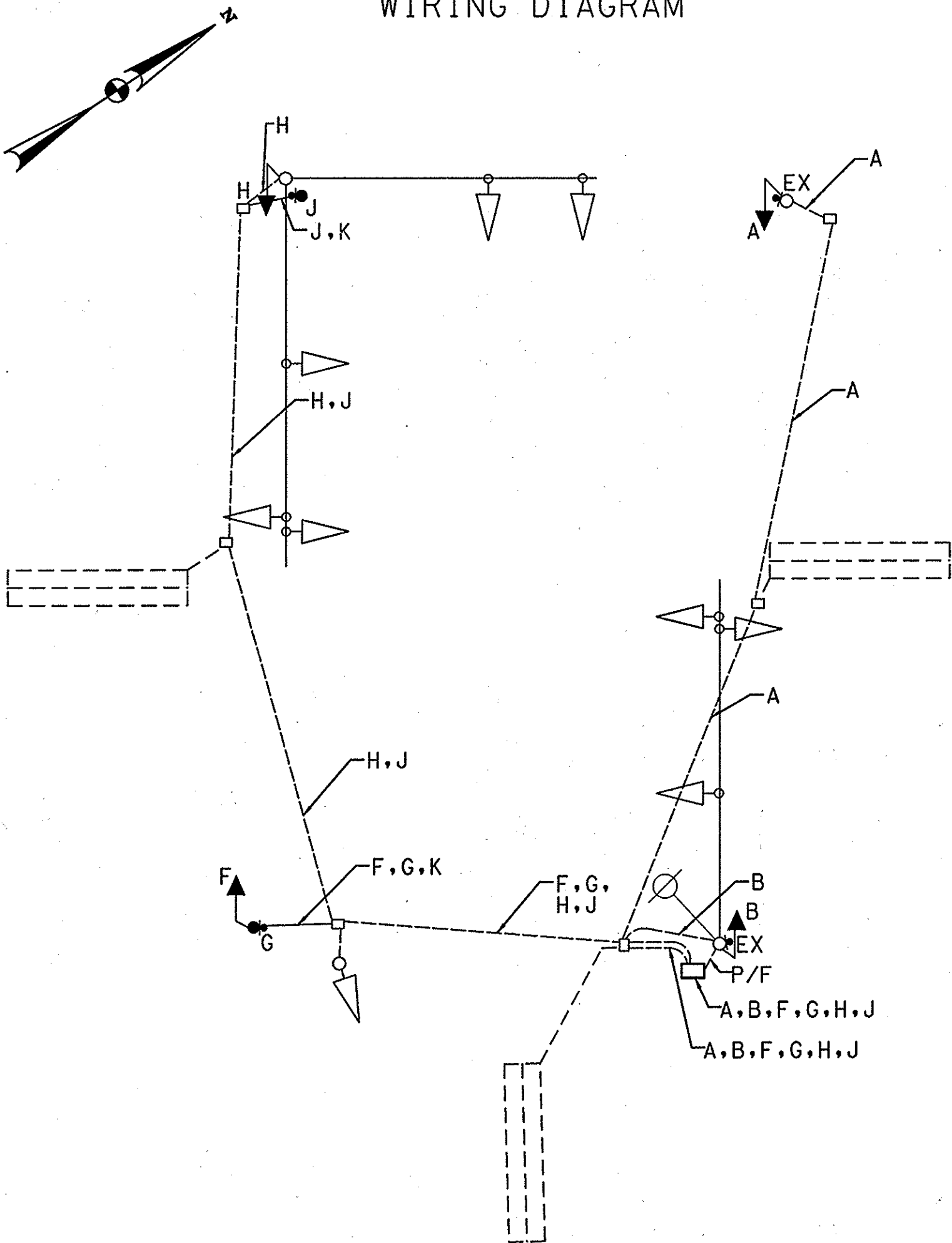
CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

MR. ED RODENHIZER  
SIGNAL SHOP  
PHONE: (410) 787-7652

MR. SONNY BAILEY  
SIGN SHOP  
PHONE: (410) 787-7670

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9571	SHEET ALUMINUM POLE MOUNT 4 - R10-4(1) (9"x12" - PHILADELPHIA AVE)	SF	3

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	*
2002	TEST PIT EXCAVATION	CY	2
6001	F&I DEPRESSED CURB AND GUTTER	LF	20
6004	F&I 4" CONCRETE SIDEWALK	SF	300
8001	F&I CONCRETE FOUNDATION	CY	2
8020	FURNISH AND INSTALL PEDESTAL POLE (ANY SIZE)	EA	2
8021	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT	EA	**
8022	REMOVE CONCRETE FOUNDATION 12" BELOW GRADE	EA	4
8029	F&I DETECTABLE WARNING SURFACES	SF	16
8033	F&I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	25
8040	F&I 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	10
8041	F&I 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	15
8057	INSTALL OVERHEAD SIGN	SF	3
8081	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1
8084	F&I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)	LF	330
8086	F&I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)	LF	540
8099	F&I 16" LED COUNTDOWN PEDESTAL SIGNAL HEADS	EA	4
8104	F&I APS PUSHBUTTON & ASSY.	EA	4
8105	FURNISH & DELIVER APS CENTRAL CONTROL UNIT	EA	1

\* - MOT QUANTITIES ARE SHOWN ON LAST GI SHEET

\*\* - REMOVE & DISPOSE QUANTITIES ARE SHOWN ON THE LAST GI SHEET

EQUIPMENT LIST "C"

ALL EQUIPMENT AND MATERIAL REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASING CHART															
	1	2	3	4	5	6	7	8	9	12	13	14	15		
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW		
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5										DW	DW	DW	DW	
PHASE 1 & 6	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW		
1 CHANGE	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW		
PHASE 2 & 5	R	R	R	G	G	G	R	R	R	DW	DW	DW	DW		
5 CHANGE	R	R	R	G	G	G	R	R	R	DW	DW	DW	DW		
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	DW	DW	DW	DW		
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW		
PHASE 4	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW		
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW		
PHASE 4 ALT	R	R	R	R	R	R	G	G	G	WK	WK	WK	WK		
PED CLEARANCE	R	R	R	R	R	R	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW		
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW		
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK		

WIRING KEY

A  
B  
H } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)  
  
G } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)  
J  
  
K - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)  
EX - USE EXISTING CABLE  
PF - EXISTING UNDERGROUND SERVICE

TOD No: AT355-20  
SHA: WO421A58/ B58  
Worcester Co.

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (PHILADELPHIA AVENUE) AT 21ST STREET  
OCEAN CITY, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1" = 20'	DATE 01/20/06	CONTRACT NO. AT3555185
DESIGNED BY TC /MRB	COUNTY WORCESTER	
DRAWN BY TC /MRB	LOGMILE 23052807.17	
CHECKED BY DAE /SMH	TIMS NO. H292	
FAP NO.	TOD NO.	



RUMMEL, KLEPPER  
& KAHL, LLP

CONSULTING ENGINEERS

81 MOSHER STREET  
BALTIMORE, MARYLAND 21217

TELE: (410) 728-2900 FAX: (410) 383-3270

TS NO. 363F-G1	DRAWING - OF	SHEET NO. 4 OF 18
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